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The Embedded Objects in ε Cha I Cloud

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Abstract

We have carried out a study of the embedded objects in the ε Cha I cloud. General shapes of the spectra have been constructed for the members in the cloud. The near infrared data have been compiled from the literature and combined with the IRAS Point Source Catalog information. Pointed observations by the IRAS have been used in the regions of high source density where the Point Source Catalog is confused. Member objects near the late B star HD 97300 have been measured recently in the $3 - 10 \mu\text{m}$ bands using the ESO 2.2 meter telescope in order to investigate the effects of disks seen in other young stellar objects.

We present a picture of the complete initial luminosity function in the ε Cha I cloud. Individual objects of interest are discussed separately. Finally we compare the observations with the theoretical views on low mass star formation.